

Application No.: 10/554090
Docket No.: BA9318USPCT

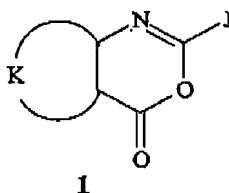
Page 2

Amendments to Claims

1. (currently amended) A method for preparing a ~~fused oxazinone~~ benzo[1,3]oxazinone, comprising:

contacting a pyrrole or pyrazole carboxylic acid with a sulfonyl chloride and an isatoic anhydride in the presence of a tertiary amine to form the ~~fused oxazinone~~ benzo[1,3]oxazinone, the nominal mole ratio of said sulfonyl chloride to said carboxylic acid being from about 1.0 to 1.5 and the nominal mole ratio of said isatoic anhydride to said carboxylic acid is from about 0.8 to 1.2.

2. (currently amended) The method of Claim 1 wherein the ~~fused oxazinone~~ benzo[1,3]oxazinone is a compound of Formula 1



wherein

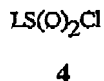
J is an optionally substituted carbon moiety pyrrole or pyrazole; and

K is, together with the two contiguous linking carbon atoms, a fused phenyl ring or a ~~fused 5- or 6-membered heteroaromatic ring~~, each ring optionally substituted;
the carboxylic acid is a compound of Formula 2



wherein J is defined as in Formula 1;

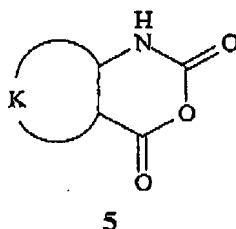
the sulfonyl chloride is a compound of Formula 4



wherein L is selected from alkyl, haloalkyl, and phenyl optionally substituted with from one to three substituents independently selected from alkyl or halogen; and
the isatoic anhydride is a compound of Formula 5

Application No.: 10/554090
Docket No.: BA9318USPCT

Page 3



wherein K is defined as in Formula 1.

3. (original) The method of Claim 2 wherein the nominal mole ratio of the isatoic anhydride to carboxylic acid is from about 0.9 to 1.1.

4. (original) The method of Claim 3 wherein the nominal mole ratio of the tertiary amine to carboxylic acid is from about 2.0 to 4.0.

5. (canceled).

6. (currently amended) The method of Claim 5 2 wherein

K is, together with the two contiguous linking carbon atoms, a fused phenyl ring optionally substituted with from one to four substituents independently selected from G, U, W or R¹³; ~~or a fused 5- or 6-membered heteroaromatic ring optionally substituted with from one to three substituents independently selected from G, U, W or R¹³;~~

~~J is C₁-C₆ alkyl, C₂-C₆ alkenyl, C₂-C₆ alkynyl, C₃-C₈ cycloalkyl or C₃-C₈ cycloalkenyl, each optionally substituted with one or more substituents selected from the group consisting of R¹², halogen, CN, NO₂, hydroxy, C₁-C₄ alkoxy, C₁-C₄ alkylsulfinyl, C₁-C₄ alkylsulfonyl, C₁-C₄ alkylamino, C₂-C₈ dialkylamino, C₃-C₆ cycloalkylamino, and (C₁-C₄ alkyl)(C₃-C₆ cycloalkyl)amino; or~~

~~J is a pyrrole or pyrazole phenyl ring, a benzyl group, a benzoyl group, a 5- or 6-membered heteroaromatic ring, an aromatic 8-, 9- or 10-membered fused carbobicyclic ring system, an aromatic 8-, 9- or 10-membered fused heterobicyclic ring system or a 5- or 6-membered nonaromatic heterocyclic ring optionally including one or two ring members selected from the group consisting of C(=O), SO or S(O)₂, each optionally substituted with from one to two four substituents independently selected from G, U, W or R¹³;~~

~~each G is a 5- or 6-membered nonaromatic heterocyclic ring optionally including one or two ring members selected from the group consisting of C(=O), SO or S(O)₂, each optionally substituted with from one to four substituents independently selected from W;~~

~~each U is a phenyl ring, a benzyl group, a benzoyl group, a 5- or 6-membered heteroaromatic ring, an aromatic 8-, 9- or 10-membered fused carbobicyclic ring~~

Application No.: 10/554090
 Docket No.: BA9318USPCT

Page 4

system, an aromatic 8-, 9- or 10-membered fused heterobicyclic ring system, each optionally substituted with from one to four substituents independently selected from W;

each W is independently C₁-C₄ alkyl, C₂-C₄ alkenyl, C₂-C₄ alkynyl, C₃-C₆ cycloalkyl, C₁-C₄ haloalkyl, C₂-C₄ haloalkenyl, C₂-C₄ haloalkynyl, C₃-C₆ halocycloalkyl, halogen, CN, NO₂, C₁-C₄ alkoxy, C₁-C₄ haloalkoxy, C₁-C₄ alkylthio, C₁-C₄ alkylsulfinyl, C₁-C₄ alkylsulfonyl, C₁-C₄ alkylamino, C₂-C₈ dialkylamino, C₃-C₆ cycloalkylamino, (C₁-C₄ alkyl)(C₃-C₆ cycloalkyl)amino or C₃-C₆ trialkylsilyl;

each R¹² is independently R¹⁹C(=E)-; R¹⁹C(=E)L-; R¹⁹LC(=E)-; (R¹⁹)LC(=E)L-; -O(Q=)P(OR¹⁹)₂-; -SO₂LR¹⁸-; or R¹⁹SO₂L-;

each R¹³ is B(OR¹⁷)₂; NH₂; SH; thiocyanato; C₃-C₈ trialkylsilyloxy; C₁-C₄ alkyl disulfide; SF₅; R¹⁹C(=E)-; R¹⁹C(=E)M-; R¹⁹MC(=E)-; (R¹⁹)MC(=E)M-; -OP(=Q)(OR¹⁹)₂-; -S(O)₂MR¹⁹; R¹⁹S(O)₂M-;

each E is independently O, S, NR¹⁵, NOR¹⁵, NN(R¹⁵)₂, N-S=O, N-CN or N-NO₂;

each M is independently O, NR¹⁸ or S;

Q is O or S;

each R¹⁵ and each R¹⁹ is independently H; C₁-C₆ alkyl optionally substituted with one or more substituents selected from the group consisting of CN, NO₂, hydroxy, C₁-C₄ alkoxy, C₁-C₄ haloalkoxy, C₁-C₄ alkylthio, C₁-C₄ alkylsulfinyl, C₁-C₄ alkylsulfonyl, C₁-C₄ haloalkylthio, C₁-C₄ haloalkylsulfinyl, C₁-C₄ haloalkylsulfonyl, C₁-C₄ alkylamino, C₂-C₈ dialkylamino, CO₂H, C₂-C₆ alkoxycarbonyl, C₂-C₆ alkylcarbonyl, C₃-C₆ trialkylsilyl, and a phenyl ring optionally substituted with one to three substituents independently selected from W; C₁-C₆ haloalkyl; C₃-C₆ cycloalkyl; or a phenyl ring optionally substituted with from one to three substituents independently selected from W;

each R¹⁷ is independently H or C₁-C₄ alkyl; or

B(OR¹⁷)₂ can form a ring wherein the two oxygen atoms are linked by a chain of two to three carbons optionally substituted with one or two substituents independently selected from methyl or C₂-C₆ alkoxycarbonyl; and

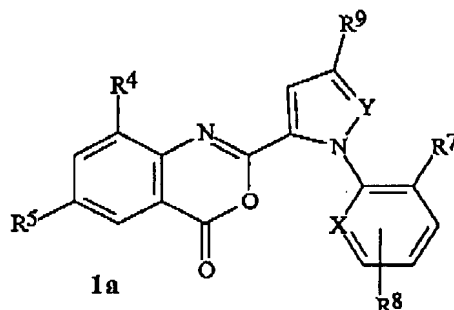
each R¹⁸ is independently H, C₁-C₆ alkyl or C₁-C₆ haloalkyl.

7. (original) The method of Claim 6 wherein K is, together with the two contiguous linking carbon atoms, a fused phenyl ring optionally substituted with from one to four substituents independently selected from W or R¹³.

8. (original) The method of Claim 2 wherein the compound of Formula 1 is a compound of Formula 1a

Application No.: 10/554090
Docket No.: BA9318USPCT

Page 5



wherein

X is N or CR⁶;

Y is N or CH;

R⁴ is C₁-C₄ alkyl or halogen;

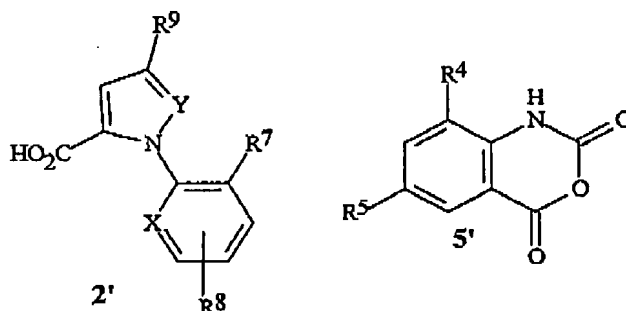
R⁵ is H, C₁-C₄ alkyl, C₁-C₄ haloalkyl, CN or halogen;

R⁶ and R⁷ are independently H, C₁-C₄ alkyl, C₁-C₄ haloalkyl, halogen, CN or C₁-C₄ haloalkoxy;

R⁸ is H, C₁-C₄ alkyl, C₂-C₄ alkenyl, C₂-C₄ alkynyl, C₃-C₆ cycloalkyl, C₁-C₄ haloalkyl, C₂-C₄ haloalkenyl, C₂-C₄ haloalkynyl, C₃-C₆ halocycloalkyl, halogen, CN, NO₂, C₁-C₄ alkoxy, C₁-C₄ haloalkoxy, C₁-C₄ alkylthio, C₁-C₄ alkylsulfinyl, C₁-C₄ alkylsulfonyl, C₁-C₄ alkylamino, C₂-C₈ dialkylamino, C₃-C₆ cycloalkylamino, (C₁-C₄ alkyl)(C₃-C₆ cycloalkyl)amino, C₂-C₄ alkylcarbonyl, C₂-C₆ alkoxycarbonyl, C₂-C₆ alkylaminocarbonyl, C₃-C₈ dialkylaminocarbonyl or C₃-C₆ trialkylsilyl;

R⁹ is CF₃, OCF₃, OCHF₂, OCH₂CF₃, S(O)_pCF₃, S(O)_pCHF₂ or halogen; and
p is 0, 1 or 2;

the compound of Formula 2 is a compound of Formula 2' and the compound of Formula 5 is a compound of Formula 5'



wherein the definitions of X, Y, R⁴, R⁵, R⁷, R⁸ and R⁹ are the same as for Formula 1a.

9. (original) The method of Claim 8 wherein

X is N;

Application No.: 10/554090
Docket No.: BA9318USPCT

Page 6

Y is N;

R⁴ is CH₃, F, Cl or Br;

R⁵ is CF₃, CN, F, Cl, Br or I;

R⁷ is Cl or Br;

R⁸ is H; and

R⁹ is CF₃, OCHF₂, OCH₂CF₃, Cl or Br.

10. (canceled).

11. (canceled).